

=> s us20070232836/pn  
L1 1 US20070232836/PN

=> sel rn  
E1 THROUGH E9 ASSIGNED

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.69	2.90

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DICTIONARY FILE UPDATES: 5 MAY 2008 HIGHEST RN 1019372-76-9

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=> s e1-e9

1	105988-28-1/BI (105988-28-1/RN)
1	192126-76-4/BI (192126-76-4/RN)
1	3483-12-3/BI (3483-12-3/RN)
1	6088-50-2/BI (6088-50-2/RN)
1	70-18-8/BI (70-18-8/RN)
1	709044-44-0/BI (709044-44-0/RN)
1	847493-44-1/BI (847493-44-1/RN)
1	847493-45-2/BI (847493-45-2/RN)
1	847493-46-3/BI (847493-46-3/RN)
L2	9 (105988-28-1/BI OR 192126-76-4/BI OR 3483-12-3/BI OR 6088-50-2/B I OR 70-18-8/BI OR 709044-44-0/BI OR 847493-44-1/BI OR 847493-45 -2/BI OR 847493-46-3/BI)

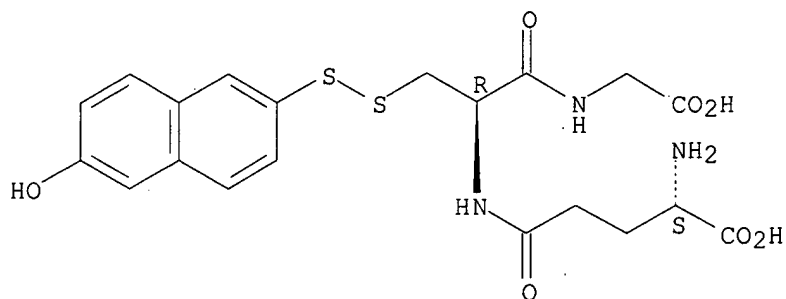
=> d scan

L2 9 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Glycine, L- $\gamma$ -glutamyl-3-[(6-hydroxy-2-naphthalenyl)dithio]-L-alanyl-

(9CI)

MF C20 H23 N3 O7 S2

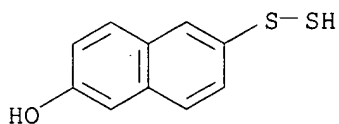
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

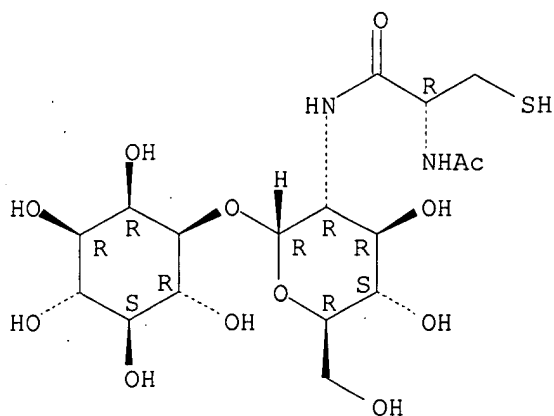
L2 9 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN 2-Naphthalenesulfenothioic acid, 6-hydroxy-  
MF C10 H8 O S2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

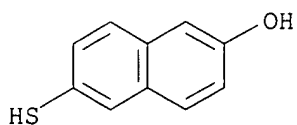
L2 9 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN D-myo-Inositol, 1-O-[2-[[ (2R)-2-(acetylamino)-3-mercapto-1-oxopropyl]amino]-2-deoxy- $\alpha$ -D-glucopyranosyl]-  
MF C17 H30 N2 O12 S

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

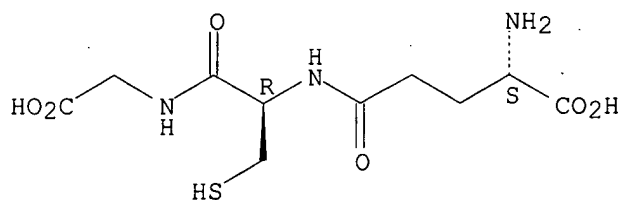
L2 9 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN 2-Naphthalenol, 6-mercapto-  
 MF C10 H8 O S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 9 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN Glycine, L-γ-glutamyl-L-cysteinyl-  
 MF C10 H17 N3 O6 S  
 CI COM

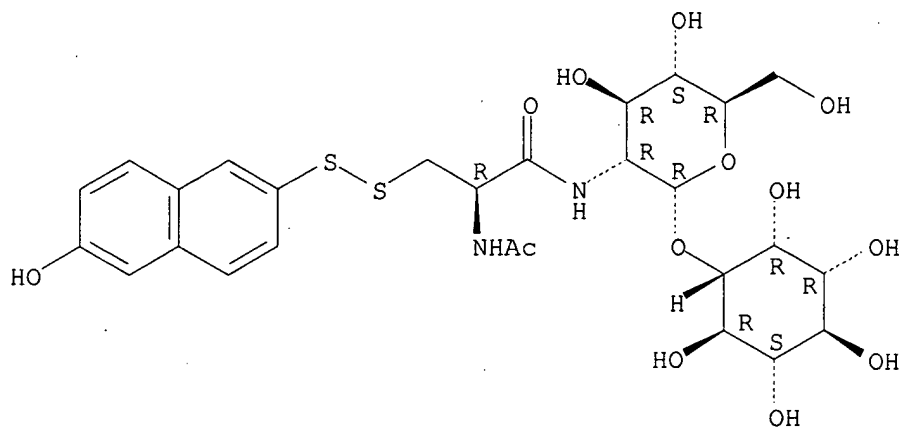
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

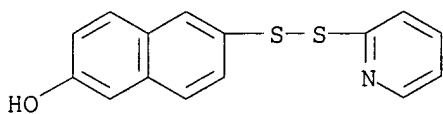
L2 9 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN D-myo-Inositol, 1-O-[2-[[[(2R)-2-(acetamino)-3-[(6-hydroxy-2-naphthalenyl)dithio]-1-oxopropyl]amino]-2-deoxy-α-D-glucopyranosyl]-(9CI)  
 MF C27 H36 N2 O13 S2

Absolute stereochemistry.



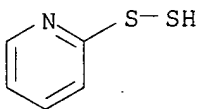
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 9 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN 2-Naphthalenol, 6-(2-pyridinyldithio)-  
 MF C15 H11 N O S2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

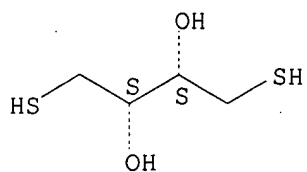
L2 9 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN 2-Pyridinesulfenothioic acid  
 MF C5 H5 N S2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 9 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel-  
 MF C4 H10 O2 S2  
 CI COM

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

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NEWS	3	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	4	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	5	JAN 28	MARPAT searching enhanced
NEWS	6	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	8	JAN 28	MEDLINE and LMEADLINE reloaded with enhancements
NEWS	9	FEB 08	STN Express, Version 8.3, now available
NEWS	10	FEB 20	PCI now available as a replacement to DPCI
NEWS	11	FEB 25	IFIREF reloaded with enhancements
NEWS	12	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	13	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	14	MAR 31	IFICDB, IFIPAT, and IFIADB enhanced with new custom IPC display formats
NEWS	15	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	16	MAR 31	CA/CAPLUS and CASREACT patent number format for U.S. applications updated
NEWS	17	MAR 31	LDPCI now available as a replacement to LDPCI
NEWS	18	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	19	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	20	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	21	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	22	APR 28	IMSRESEARCH reloaded with enhancements
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NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
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FILE 'HOME' ENTERED AT 08:07:50 ON 06 MAY 2008

=> FILE REG

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 08:08:12 ON 06 MAY 2008

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=>

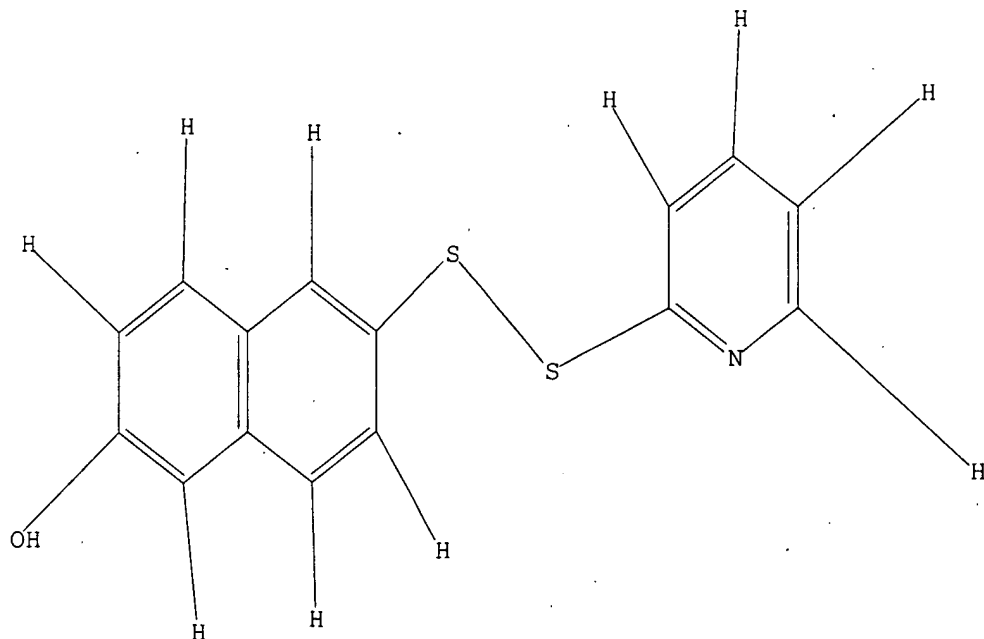
Uploading C:\Program Files\Stnexp\Queries\SS.str

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1 FULL

FULL SEARCH INITIATED 08:09:07 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 90 TO ITERATE

100.0% PROCESSED 90 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L2 1 SEA SSS FUL L1

=> FILE CAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.82

179.03

FILE 'CAPLUS' ENTERED AT 08:09:16 ON 06 MAY 2008

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FILE COVERS 1907 - 6 May 2008 VOL 148 ISS 19

FILE LAST UPDATED: 5 May 2008 (20080505/ED)

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<http://www.cas.org/infopolicy.html>

=> S L2

L3 2 L2

=> D L3 IBIB ABS HITSTR 1-2

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:216793 CAPLUS

DOCUMENT NUMBER: 142:278860

TITLE: A method of isolating a thiol

INVENTOR(S): Steenkamp, Daniel Jacobus

PATENT ASSIGNEE(S): University of Cape Town, S. Afr.

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005021493	A2	20050310	WO 2004-IB2774	20040827
WO 2005021493	A3	20050414		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 20070232836 A1 20071004 US 2007-569710 20070308  
 PRIORITY APPLN. INFO.: ZA 2003-6684 A 20030827  
 WO 2004-IB2774 W 20040827

OTHER SOURCE(S): MARPAT 142:278860

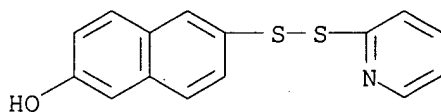
AB The invention relates to a method of isolating a thiol R'SH from a thiol containing mixture. The method includes the steps of forming a mixed disulfide R'SSR of the thiol R'SH, purifying the mixed disulfide R'SSR and reducing the purified mixed disulfide R'SSR. The thiol R'SH is thereafter isolated. The invention extends to a disulfide of the formula R'SSR.

IT 709044-44-0P

RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (isolating a thiol from fermentation)

RN 709044-44-0 CAPLUS

CN 2-Naphthalenol, 6-(2-pyridinyldithio)- (CA INDEX NAME)



L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:30260 CAPLUS

DOCUMENT NUMBER: 141:50006

TITLE: Preparation and utilization of a reagent for the isolation and purification of low-molecular-mass thiols

AUTHOR(S): Steenkamp, Daniel J.; Vogt, Ryan N.

CORPORATE SOURCE: Faculty of Health Sciences, Division of Chemical Pathology, University of Cape Town, Cape Town, 7935, S. Afr.

SOURCE: Analytical Biochemistry (2004), 325(1), 21-27  
 CODEN: ANBCA2; ISSN: 0003-2697

PUBLISHER: Elsevier Science

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Problems inherent in the isolation of thiols from natural sources, such as oxidation, undesirable addition reactions, and low concentration of thiol species in

cell-free exts., can be circumvented by reversible derivatization to a less labile form which can be concentrated selectively. These objectives are realized by converting thiols to heterodisulfides in which the thiol partner is an apolar thiol with strong affinity for hydrophobic stationary phases. When reacted with 2-S-(2'-thiopyridyl)-6-hydroxynaphthyldisulfide at pH<5, where most thiol species are relatively stable to atmospheric oxidation,

mixed disulfides with 2-mercapto-6-hydroxynaphthalene as the apolar partner are obtained in good yield and can be concentrated onto a hydrophobic stationary phase. Such heterodisulfides exhibit excellent chromatog. properties when separated on reversed-phase media and the derivatization

reaction can, therefore, be conveniently monitored. Following their isolation as the heterodisulfides the thiol species of interest are recovered by reduction and facile separation from the apolar 2-mercapto-6-hydroxynaphthalene partner.

IT 709044-44-0

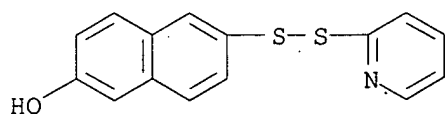
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);

ANST (Analytical study); BIOL (Biological study); USES (Uses)

(preparation and utilization of reagent for isolation and purification of low-mol.-mass thiols from biol. system)

RN 709044-44-0 CAPLUS

CN 2-Naphthalenol, 6-(2-pyridinyldithio)- (CA INDEX NAME)



REFERENCE COUNT:

20

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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prophetic substances  
NEWS 4 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new  
custom IPC display formats  
NEWS 5 JAN 28 MARPAT searching enhanced  
NEWS 6 JAN 28 USGENE now provides USPTO sequence data within 3 days  
of publication  
NEWS 7 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment  
NEWS 8 JAN 28 MEDLINE and LMEADLINE reloaded with enhancements  
NEWS 9 FEB 08 STN Express, Version 8.3, now available  
NEWS 10 FEB 20 PCI now available as a replacement to DPCI  
NEWS 11 FEB 25 IFIREF reloaded with enhancements  
NEWS 12 FEB 25 IMSPRODUCT reloaded with enhancements  
NEWS 13 FEB 29 WPINDEX/WPIDS/WPIX enhanced with ECLA and current  
U.S. National Patent Classification  
NEWS 14 MAR 31 IFICDB, IFIPAT, and IFIADB enhanced with new custom  
IPC display formats  
NEWS 15 MAR 31 CAS REGISTRY enhanced with additional experimental  
spectra  
NEWS 16 MAR 31 CA/CAPLUS and CASREACT patent number format for U.S.  
applications updated  
NEWS 17 MAR 31 LPCI now available as a replacement to LDPCI  
NEWS 18 MAR 31 EMBASE, EMBAL, and LEMBASE reloaded with enhancements  
NEWS 19 APR 04 STN AnaVist, Version 1, to be discontinued  
NEWS 20 APR 15 WPIDS, WPINDEX, and WPIX enhanced with new  
predefined hit display formats  
NEWS 21 APR 28 EMBASE Controlled Term thesaurus enhanced  
NEWS 22 APR 28 IMSRESEARCH reloaded with enhancements  
  
NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 08:23:17 ON 06 MAY 2008

=> FILE REG

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

0.21

0.21

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STRUCTURE FILE UPDATES: 5 MAY 2008 HIGHEST RN 1019372-76-9

DICTIONARY FILE UPDATES: 5 MAY 2008 HIGHEST RN 1019372-76-9

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

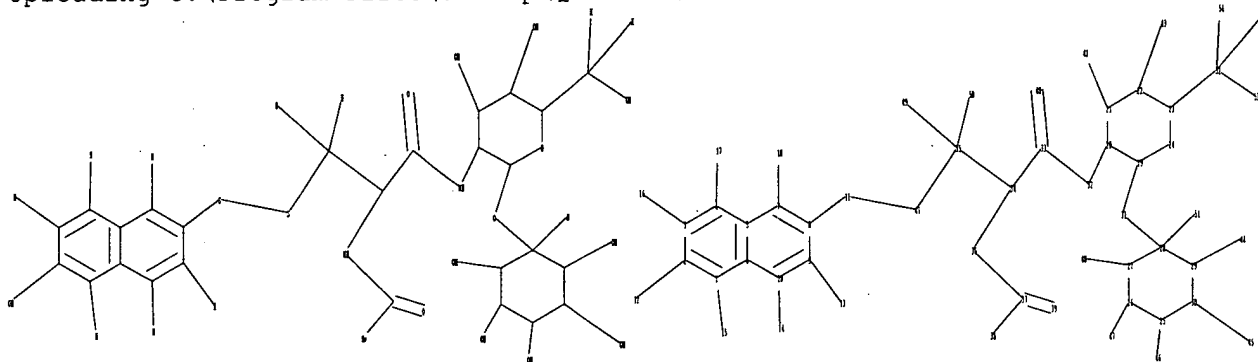
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=>

Uploading C:\Program Files\Stnexp\Queries\SS1.str



chain nodes :

11 12 13 14 15 16 17 18 31 32 33 34 35 36 37 38 39 40 41 42 43  
44 45 46 47 48 49 50 51 52 53 54 55

ring nodes :

1 2 3 4 5 6 7 8 9 10 19 20 21 22 23 24 25 26 27 28 29 30

chain bonds :

1-15 2-12 3-16 4-17 7-18 8-11 9-13 10-14 11-41 19-31 20-32 21-42 22-43  
23-52 25-46 26-47 27-48 28-31 28-51 29-44 30-45 32-33 33-34 33-40 34-35  
34-36 35-41 35-49 35-50 36-37 37-38 37-39 52-53 52-54 52-55

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 19-20 19-24 20-21 21-22  
22-23 23-24 25-26 25-30 26-27 27-28 28-29 29-30

exact/norm bonds :

2-12 8-11 11-41 19-20 19-24 19-31 20-21 20-32 21-22 21-42 22-23 22-43  
23-24 25-26 25-30 25-46 26-27 26-47 27-28 27-48 28-29 28-31 29-30 29-44  
30-45 32-33 33-40 34-36 35-41 36-37 37-39 52-53

exact bonds :  
1-15 3-16 4-17 7-18 9-13 10-14 23-52 28-51 33-34 34-35 35-49 35-50  
37-38 52-54 52-55  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom  
28:Atom 29:Atom 30:Atom 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS  
36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS  
44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:CLASS 51:CLASS  
52:CLASS 53:CLASS 54:CLASS 55:CLASS

L1 STRUCTURE UPLOADED

=> D L1  
L1 HAS NO ANSWERS  
L1 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> S L1 FULL  
FULL SEARCH INITIATED 08:24:24 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

L2 1. SEA SSS FUL L1

=> FILE CAPLUS		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	178.36	178.57

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FILE COVERS 1907 - 6 May 2008 VOL 148 ISS 19  
FILE LAST UPDATED: 5 May 2008 (20080505/ED)

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=> S L2

L3 1 L2

=> D L3 IBIB ABS HITSTR 1

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:216793 CAPLUS

DOCUMENT NUMBER: 142:278860

TITLE: A method of isolating a thiol

INVENTOR(S): Steenkamp, Daniel Jacobus

PATENT ASSIGNEE(S): University of Cape Town, S. Afr.

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005021493	A2	20050310	WO 2004-IB2774	20040827
WO 2005021493	A3	20050414		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 20070232836	A1	20071004	US 2007-569710	20070308
PRIORITY APPLN. INFO.:			ZA 2003-6684	A 20030827
			WO 2004-IB2774	W 20040827

OTHER SOURCE(S): MARPAT 142:278860

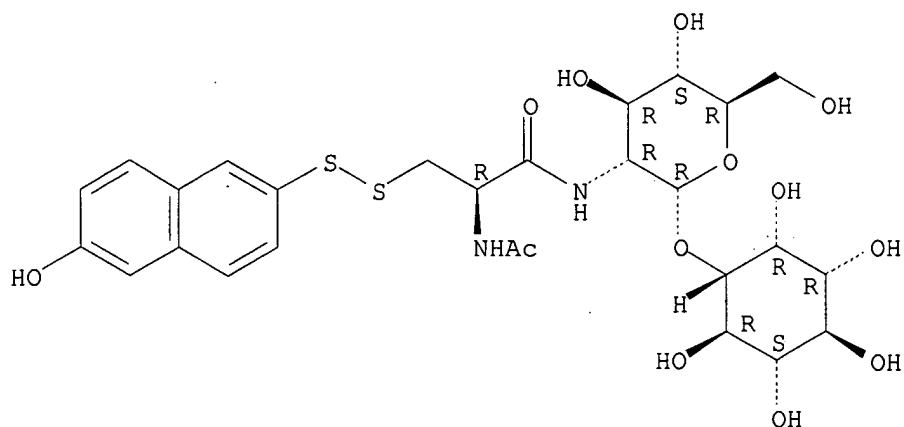
AB The invention relates to a method of isolating a thiol R'SH from a thiol containing mixture. The method includes the steps of forming a mixed disulfide R'SSR of the thiol R'SH, purifying the mixed disulfide R'SSR and reducing the purified mixed disulfide R'SSR. The thiol R'SH is thereafter isolated. The invention extends to a disulfide of the formula R'SSR.

IT 847493-45-2P, 2-S-Mycothioly-6-hydroxynaphthalene disulfide  
RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(isolating a thiol from fermentation)

RN 847493-45-2 CAPLUS

CN D-myo-Inositol, 1-O-[2-[[[(2R)-2-(acetylamino)-3-[(6-hydroxy-2-naphthalenyl)dithio]-1-oxopropyl]amino]-2-deoxy- $\alpha$ -D-glucopyranosyl]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.41	184.98
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

STN INTERNATIONAL LOGOFF AT 08:25:37 ON 06 MAY 2008